

ABSTRACT

The present invention relates to a system and method for providing radio frequency communication of data collected by a multiplicity of mobile transceiver units to a base transceiver. The system comprises the base transceiver and the mobile transceiver units being selectively operable at limited and increased data rates. The mobile units respond to transmissions by the base transceiver, and have means to evaluate the feasibility of responding at the increased data rate. The base transceiver effects a communication link with one or more mobile units. The mobile units for which a communication link has not been established receives the transmissions of the mobile units with which a communication link has been established. The mobile units evaluate for consistent reception of transmissions to one or more transceiver units. The mobile units which consistently receive transmissions at the increased data rate respond at the increased data rate when communication is directed thereto.